

SUMMARY OF SKILLS

Programming: Python, Java, SQL, NoSQL, shell; prior: C/C++, PHP, JavaScript, HTML, CSS, MATLAB

Machine Learning: Linear Regression, Logistic Regression, Support Vector Machine, Decision Tree, Naïve Bayes, Principle Component Analysis, Ensemble method (Random Forest, AdaBoost)

Deep Learning: Computer Vision, Convolutional Neural Network (CNN), Long Short-Term Memory Network (LSTM), Generative Adversarial Network (GAN), Time Series Forecasting

ML/DL Tools: TensorFlow, Keras, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn; knowledge of: PyTorch, OpenCV

Software Development: Docker, Git, Continuous Deployment/Development, RESTful Service; knowledge of: Amazon Web Service (AWS), Google Cloud Platform (GCP)

EDUCATION

Boise State University

Boise, ID

Ph.D. in Computer Science, CGPA: 3.84

August 2018-Present

Relevant Coursework: Machine Learning, Deep Learning, Artificial Intelligence, Image Processing, Software Engineering, Advanced Programming Language, Distributed System, Applied Cryptography, Advanced Operating System

Khulna University of Engineering & Technology

Khulna, Bangladesh

Bachelor of Science in Mechanical Engineering

March 2013 – April 2017

WORK EXPERIENCE

Boise State University

Boise, ID

Graduate Research Assistant

January 2019-Present

- Developed an encoding and decoding algorithm for storing the data in Nucleic Acid Memory (NAM) with support of error correction algorithms
- Developed super-resolution microscope plugin that analyzes DNA data in real-time
- Super-Resolution Microscopy (SRM) image analysis using Deep learning, image processing and machine learning(ongoing)

WebControl

Remote work

Web Developer(part-time)

July 2015 – August 2018

- Worked closely with the designer to create pixel perfect responsive front-end using HTML5, CSS3 & JavaScript
- Developed back-end of the website using PHP, WordPress & AJAX

PROJECTS

Bengali Handwritten Grapheme Classification

Python, TensorFlow, Keras, Computer-vision

A handwritten grapheme classifier using Convolutional Neural Network. Optimized the hyperparameter with the help of TensorBoard

Auction system automation

PHP, JavaScript, SQL, jQuery, Bootstrap

A web-based consumer site that allows every consumer to get quotes and talk to professionals for any service they require. Professionals can bid on consumer's task

PERSONAL DEVELOPMENT

- Deep Learning by deeplearning.ai on Coursera. Certificate earned at May 21, 2020
- TensorFlow Developer by deeplearning.ai on Coursera. Certificate earned at August 24, 2020